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Print Format	i	
	[Abstract] [PDF Full-Text (<u>260 KB)]</u> JNL

2 Pre-processing of 3D CAD data for electromagnetic simulations by the method of moments

Jobava, R.; Frei, S.; Bogdanov, F.; Gheonjian, A.; Kvaratskhelia, R.; Sukhiashvili, Z.

Direct and Inverse Problems of Electromagnetic and Acoustic Wave Theory, 2001. DIPED 2001. Proceedings of the 6th International Seminar/Workshop on , 2001

Page(s): 191 -194

[Abstract] [PDF Full-Text (247 KB)] CNF

3 Collision avoidance analysis for lane changing and merging

.....

Jula, H.; Kosmatopoulos, E.B.; Ioannou, P.A.

Vehicular Technology, IEEE Transactions on , Volume: 49 Issue: 6 , Nov. 2000

Page(s): 2295 -2308

[Abstract] [PDF Full-Text (360 KB)] JNL

4 Robustness optimization for vehicular crash simulations



Ren-Jye Yang; Akkerman, A.; Anderson, D.F.; Faruque, O.M.; Lei Gu Computing in Science & Engineering , Volume: 2 Issue: 6 , Nov.-Dec. 2000

Page(s): 8 -13

[Abstract] [PDF Full-Text (620 KB)] JNL

5 Development of a wheelchair occupant injury risk assessment method and its application in the investigation of wheelchair securement point influence on frontal crash safety

Bertocci, G.E.; Hobson, D.A.; Digges, K.H.

Rehabilitation Engineering, IEEE Transactions on [see also IEEE Trans. on Neural Systems and Rehabilitation Engineering] , Volume: 8

Issue: 1, March 2000 Page(s): 126 -139

[Abstract] [PDF Full-Text (404 KB)] JNL

6 Computer simulation and sled test validation of a powerbase wheelchair and occupant subjected to frontal crash conditions

Bertocci, G.E.; Szobota, S.; Hobson, D.A.; Digges, K.

Rehabilitation Engineering, IEEE Transactions on [see also IEEE Trans. on Neural Systems and Rehabilitation Engineering], Volume: 7

Issue: 2 , June 1999 Page(s): 234 -244

[Abstract] [PDF Full-Text (600 KB)] JNL

7 Adaptation of integrated restraint (IR) technology for use in the wheelchair transportation industry

van Roosmalen, L.; Bertocci, G.E.

[Engineering in Medicine and Biology, 1999. 21st Annual Conference and the 1999 Annual Fall Meetring of the Biomedical Engineering Society] BMES/EMBS Conference, 1999. Proceedings of the First Joint

, Volume: 1 , 1999 Page(s): 605 vol.1

[Abstract] [PDF Full-Text (112 KB)] CNF

8 Investigation and simulation of lateral buckling in trains

Mayville, R.; Rancatore, R.; Tegeler, L.

Railroad Conference, 1999. Proceedings of the 1999 ASME/IEEE Joint , 1999

Page(s): 88 -93

[Abstract] [PDF Full-Text (416 KB)] CNF



Mayville, R.; Stringfellow, R.; Rancatore, R.; Johnson, K. Railroad Conference, 1999. Proceedings of the 1999 ASME/IEEE Joint , 1999

Page(s): 94 -101

[Abstract] [PDF Full-Text (492 KB)] CNF

10 A crash avoidance system based upon the cockroach escape response circuit

Chun-Ta Chen; Quinn, R.D.; Ritzmann, R.E. Robotics and Automation, 1997. Proceedings., 1997 IEEE International Conference on , Volume: 3, 1997

Page(s): 2007 -2012 vol.3

[Abstract] [PDF Full-Text (504 KB)] CNF

11 The use of a virtual environment for FE analysis of vehicle crash worthiness

Kuschfeldt, S.; Schulz, M.; Ertl, T.; Reuding, T.; Holzner, M. Virtual Reality Annual International Symposium, 1997., IEEE 1997, 1997

Page(s): 209

[Abstract] [PDF Full-Text (176 KB)] CNF

12 Development of transportable wheelchair design criteria using computer crash simulation

Bertocci, G.E.; Hobson, D.A.; Digges, K.H.
Rehabilitation Engineering, IEEE Transactions on [see also IEEE

Trans. on Neural Systems and Rehabilitation Engineering], Volume: 4

Issue: 3 , Sept. 1996 Page(s): 171 -181

[Abstract] [PDF Full-Text (1192 KB)] JNL

13 A low-cost force feedback joystick and its use in PC video games

Ming Ouhyoung; Wu-Nan Tsai; Ming-Chang Tsai; Jiann-Rong Wu; Chung-Hsi Huang; Tzong-Jer Yang

Consumer Electronics, IEEE Transactions on , Volume: 41 Issue: 3 ,

Aug. 1995

Page(s): 787 -794

[Abstract] [PDF Full-Text (568 KB)] JNL





14 At Oak Ridge, a car crash on the World Wide Web

Sims, D.

IEEE Computer Graphics and Applications, Volume: 15 Issue: 3, May

1995

Page(s): 16 -18

[Abstract] [PDF Full-Text (228 KB)] JNL

15 Benchmarking the performance of physical impact simulation software on vector and parallel computers

Ginsberg, M.; Johnson, J.P.

Supercomputing 88. Vol.II: Science and Applications., Proceedings,

1989

Page(s): 180 -190 vol.2

[Abstract] [PDF Full-Text (520 KB)] CNF

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🕰 Print Format	[Abstract] [PDF Full-Text (297 KB)] JNL	

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O- Standards South By Author Rasic Advanced Member Services O- Join IEEE Veh Account Apprint Format	1 Virtual-prototyping sa the virtual test bed Zhenhua Jiang; Shengyi Liu SoutheastCon, 2002. Proce Page(s): 113 -120 [Abstract] [PDF Full-Text	tellite electrical pov u; Dougal, R.A. edings IEEE , 2002	***************************************
THE SAME CONTROL			

2 Simulating an optical guidance system for the recovery of an unmanned underwater vehicle

Deltheil, C.; Didier, L.; Hospital, E.; Brutzman, D.P.

·

Oceanic Engineering, IEEE Journal of, Volume: 25 Issue: 4, Oct.

2000

Page(s): 568 -574

[Abstract] [PDF Full-Text (256 KB)] JNL

3 A Matlab-based modeling and simulation package for electric and hybrid electric vehicle design

Butler, K.L.; Ehsani, M.; Kamath, P.

Vehicular Technology, IEEE Transactions on , Volume: 48 Issue: 6,

Nov. 1999

Page(s): 1770 -1778

[Abstract] [PDF Full-Text (224 KB)] JNL

4 On real-time simulation of induction motors

Sureshbabu, N.; Seshagiri, S.; Masrur, A.; Powell, B.K. American Control Conference, 1999. Proceedings of the 1999,



Volume: 1, 1999

Page(s): 719 -723 vol.1

[Abstract] [PDF Full-Text (456 KB)] CNF

5 Comparison of traffic assignments in evacuation modeling

Hobeika, A.G.; Changkyun Kim

Engineering Management, IEEE Transactions on , Volume: 45 Issue: 2

, May 1998

Page(s): 192 -198

[Abstract] [PDF Full-Text (92 KB)] JNL

6 Autonomous vehicle using WADGPS

Singh, D.; Grewal, H.K.

Intelligent Vehicles '95 Symposium., Proceedings of the , 1995

Page(s): 370 -375

[Abstract] [PDF Full-Text (496 KB)] CNF

7 Three-dimensional visualization of mission planning and control for the NPS autonomous underwater vehicle

Zyda, M.J.; McGhee, R.B.; Kwak, S.; Nordman, D.B.; Rogers, R.C.; Marco, D.

Oceanic Engineering, IEEE Journal of, Volume: 15 Issue: 3, July

1990

Page(s): 217 -221

[Abstract] [PDF Full-Text (552 KB)] JNL

8 Class Simulation Of Real Time, Highly Compressed Video Transmission Through An Interference Limited Environment

Godfrey, R.; Lai, D.; Avant, R.; Wang, J.

Simulation Conference Proceedings, 1989. Winter

Page(s): 1065 -1075

[Abstract] [PDF Full-Text (1300 KB)] CNF

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Caucil By Author Rasic Advanced Manife Scott Join IEEE Establish IEEE Web Account	wheelchair and occupant Bertocci, G.E.; Szobota, S.; Rehabilitation Engineering, I	id sled test validation of a power subjected to frontal crash conditions on the condition of the condition of the conditions on the condition of the condition	litions E
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[Abstract] [PDF Full-Text (600 KB)] JNL

2 At Oak Ridge, a car crash on the World Wide Web

Sims, D.

IEEE Computer Graphics and Applications , Volume: 15 Issue: $\bf 3$, May

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1995

Page(s): 16 -18

[Abstract] [PDF Full-Text (228 KB)] JNL

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(FILE 'HOME' ENTERED AT 14:18:30 ON 26 AUG 2002)

FILE 'USPATFULL, USPAT2, INSPEC, EUROPATFULL' ENTERED AT 14:18:43 ON 26 AUG 2002

L1 442 S SIMULATION AND VEHICLE AND CRASH

L2 87 S L1 AND RESTRAINT#

L3 53 S L2 AND MODEL?

L4 21 S L3 AND VEHICLE CRASH

=> D L4 1-21 IBIB ABS

L4 ANSWER 1 OF 21 USPATFULL

ACCESSION NUMBER:

2002:192545 USPATFULL

TITLE:

Decision-aid system based on wirelessly-transmitted

vehicle crash sensor information

INVENTOR (S):

Burge, John R., Redondo Beach, CA, UNITED STATES

	NUMBER	KIND	DATE	
PATENT INFORMATION: APPLICATION INFO.:	US 2002103622 US 2001-907542	A1 A1	20020801 20010716	(9)
	NUMBER	DA	TE	

PRIORITY INFORMATION: US 2000-218576P 20000717 (60)
US 2000-218577P 20000717 (60)
US 2000-218578P 20000717 (60)
US 2000-218579P 20000717 (60)
US 2000-223814P 20000808 (60)
US 2000-236999P 20000929 (60)
US 2000-253796P 20001129 (60)

DOCUMENT TYPE:

Utility

FILE SEGMENT:

APPLICATION

LEGAL REPRESENTATIVE:

Eric K. Satermo, Registered Patent Agent, P.O. Box

19099, Irvine, CA, 92633-9099

NUMBER OF CLAIMS:

EXEMPLARY CLAIM: 1

NUMBER OF DRAWINGS:

40 Drawing Page(s)

LINE COUNT:

2044

56

AB A decision-aid system that receives, analyzes, manages and communicates data from **vehicle crash** sensors for use by trauma system personnel in treating injured occupants from the **vehicles**

which produced the **crash** sensor data. The system utilizes a computer system that accepts and analyzes **vehicle**

crash data from vehicle communication systems

connected to crash sensors that generate data when a

vehicle is involved in a crash. Crash sensor

data is stored on a central network for remote access by trauma system personnel and others providing response services and medical services

injured **vehicle** occupants. By gaining access to **crash** sensor data, analyzed **crash** sensor data and other information, accurate patient transport, handling and treatment decisions can be made.

to

ANSWER 2 OF 21 USPATFULL

ACCESSION NUMBER:

TITLE:

002:192474 USPATFULL

iomechanical system development

system

INVENTOR (S):

Cooper, John, Oxford, MI, UNITED STATES

NUMBER KIND DATE -----

PATENT INFORMATION: US 2002103549 A1 20020801 US 2001-774924 A1 20010131 (9) APPLICATION INFO.:

DOCUMENT TYPE: FILE SEGMENT: Utility APPLICATION

LEGAL REPRESENTATIVE: BREED TECHNOLOGIES, INC, PATENT DEPARTMENT, 7000

NINETEEN MILE ROAD, STERLING HEIGHTS, MI, 48314

NUMBER OF CLAIMS: 20 1 EXEMPLARY CLAIM:

10 Drawing Page(s) NUMBER OF DRAWINGS:

LINE COUNT: 615

Disclosed is a safety restraint design controller for AB

controlling the design of a safety restraint system so that a

predetermined desired level of an occupant's response (89) is produced.

The controller has a database (85) for storing an occupant

restraint factor response model (90). The

model (90) interrelates at least one predetermined

restraint factor (88) with the occupant response (89), the

restraint factors having a level that is indicative of setting values for controlling the safety restraint design. A database engine connected to the database (85) determines a level for the occupant response (89) based upon the model and upon a first level of the restraint factors. An optimizer is connected to the database engine for determining a second level of the

restraint factors (88), which produces the desired level of the occupant response based upon the desired level of the occupant response (89) from the database engine; whereby the safety restraints design is controlled based upon the determined second level of the

restraint factors that produces the desired level of the safety response.

ANSWER 3 OF 21 USPATFULL

ACCESSION NUMBER: 2002:70559 USPATFULL

TITLE:

Neural network radar processor

INVENTOR(S):

Farmer, Michael E., West Bloomfield, MI, United States

Jacobs, Craig S., Farmington Hills, MI, United States

Cong, Shan, Ann Arbor, MI, United States

PATENT ASSIGNEE(S):

Automotive Systems Laboratory, Inc., Farmington Hills,

MI, United States (U.S. corporation)

KIND DATE NUMBER ------US 6366236 B1 20020402 US 2000-637044 20000811 PATENT -INFORMATION: APPLICATION INFO.: 20000811 (9)

NUMBER DATE

______ US 1999-148597P 19990812 (60) PRIORITY INFORMATION:

DOCUMENT TYPE: Utility FILE SEGMENT: GRANTED

PRIMARY EXAMINER: Blum, Theodore M. LEGAL REPRESENTATIVE: Dinnin & Dunn, P.C.

NUMBER OF CLAIMS: 18 EXEMPLARY CLAIM: 1

12 Drawing Figure(s); 6 Drawing Page(s) NUMBER OF DRAWINGS:

LINE COUNT: 1088

A neural network radar processor (10) comprises a multilayer perceptron neural network (100.1) comprising an input layer (102), a second layer

(122), and at least a third layer (124), wherein each layer has a plurality of nodes (108), and respective subsets nodes (108) of the second (122) and hird (124) layers are intercon ted so as to form mutually exclusive subnetworks (120). In-phase and quadrature phase

time

series from a sampled down-converted FMCW radar signal (19) are applied to the input layer, and the neural network (100) is trained so that the nodes of the output layer (106) are responsive to targets in corresponding range cells, and different subnetworks (120) are responsive to respectively different non-overlapping sets of target ranges. The neural network is trained with signals that are germane to an FMCW radar, including a wide range of target scenarios as well as leakage signals, DC bias signals, and background clutter signals.

ANSWER 4 OF 21 USPATFULL

ACCESSION NUMBER: 2001:174751 USPATFULL

Optimization of a single-point frontal airbag fire TITLE:

Nusholtz, Guy S., Bloomfield, MI, United States INVENTOR(S):

Shi, Yibing, Novi, MI, United States

Xu, Lan, Rochester Hill, MI, United States

DaimlerChrysler Corporation, Auburn Hills, MI, United PATENT ASSIGNEE(S):

States (U.S. corporation)

NUMBER KIND DATE

PATENT INFORMATION: US 6301535 B1 20011009
APPLICATION INFO.: US 1999-426845 19991026 (9)

DOCUMENT TYPE: Utility GRANTED FILE SEGMENT:

PRIMARY EXAMINER: Cuchlinski, Jr., William A. ASSISTANT EXAMINER: Arthur, Gertrude

LEGAL REPRESENTATIVE: Calcaterra, Mark P.

40 NUMBER OF CLAIMS: 1 EXEMPLARY CLAIM:

NUMBER OF DRAWINGS: 38 Drawing Figure(s); 19 Drawing Page(s)

LINE COUNT: 1041

A method of optimization of a single-point frontal airbag fire AΒ threshold. The relationship of the airbag fire distribution as a function of velocity to the airbag fire-time is characterized through the use of an optimization procedure. The optimization is conducted by abstracting the sensor algorithm and its associated constraints into a simple mathematical formulation. An airbag fire objective function is constructed that integrates the fire-rate and fire-time requirements. The function requires the input of a single acceleration time history, and it produces an output depending on the airbag fire condition. Numerical search of the optimal fire threshold curve is achieved

through

parameterizing this curve and applying a modified simplex search optimization algorithm that determines the optimal threshold function parameters without computing the complete objective function in the parameter space.

ANSWER 5 OF 21 USPATFULL

2001:154848 USPATFULL ACCESSION NUMBER:

Methods for controlling a system in a vehicle TITLE:

using a transmitting/receiving transducer and/or while

compensating for thermal gradients

Johnson, Wendell C., Signal Hill, CA, United States INVENTOR(S): Du Vall, Wilbur E., Kimberling City, MO, United States

Breed, David S., Boonton Township, NJ, United States

NUMBER KIND DATE -----

PATENT INFORMATION: US 2001020777 A 1 20010913 S 2001020/// AI 20010913 S 2001-827961 AI 20010406 APPLICATION INFO.:

ontinuation-in-part of Ser. No. s 1999-328566, filed RELATED APPLN. INFO.:

on 9 Jun 1999, PENDING

NUMBER DATE -----

PRIORITY INFORMATION:

US 1998-88386P 19980609 (60)

(9)

DOCUMENT TYPE:

Utility

FILE SEGMENT:

APPLICATION

LEGAL REPRESENTATIVE: BRIAN ROFFE, ESQ, 366 LONGACRE AVENUE, WOODMERE, NY,

11598

NUMBER OF CLAIMS:

54 1

EXEMPLARY CLAIM:

NUMBER OF DRAWINGS:

41 Drawing Page(s)

LINE COUNT:

3929

ΑB

Methods for controlling a $\mathbf{vehicle}$ system in which radiation is directed from a transducer into the passenger compartment and is reflected off or modified by an object in the passenger compartment and received by the same or a different transducer. When ultrasonic waves are used, one or more techniques are used to compensate for thermal gradients in the passenger compartment and/or enable the use of a

single

transducer to send and receive waves, for example, a tubular mounting structure for the transducers, electronic reduction of ringing of the transducer, mechanical damping of the transducer cone, shaped horns, grills and reflectors for the output of the transducers to precisely control the beam pattern, a logarithmic compression amplifier, a temperature compensation method based on change in transducer

properties

with temperature and/or a dual level network, one level for categorization and the second for occupant position sensing.

ANSWER 6 OF 21 USPATFULL

ACCESSION NUMBER: 2001:141107 USPATFULL

TITLE:

Methods for controlling a system in a vehicle

using a transmitting/receiving transducer and/or while

compensating for thermal gradients

INVENTOR(S):

Johnson, Wendell C., Torrance, CA, United States Duvall, Wilbur E., Kimberling City, MO, United States Breed, David S., Boonton Township, Morris County, NJ,

United States

PATENT ASSIGNEE(S):

Automotive Technologies International Inc., Denville,

NJ, United States (U.S. corporation)

NUMBER KIND DATE _______ PATENT INFORMATION: US 6279946 B1 20010828 APPLICATION INFO.: US 1999-328566 19990609 (9)

NUMBER DATE -----

PRIORITY INFORMATION: US 1998-88386P 19980609 (60)

DOCUMENT TYPE: FILE SEGMENT:

Utility GRANTED

PRIMARY EXAMINER: Boehler, Anne Marie
ASSISTANT EXAMINER: Fischmann, Bryan
LEGAL REPRESENTATIVE: Roffe, Brian

LEGAL REPRESENTATIVE.

NUMBER OF CLAIMS: 39

CLAIM: 1

NUMBER OF DRAWINGS:

55 Drawing Figure(s); 41 Drawing Page(s) 3573

LINE COUNT:

Methods for controlling a system in a vehicle in which AB radiation is directed from a transducer into the passenger compartment and is reflected off or modified by an object in the passenger

compartment and received by the same or a different transducer. When ultrasonic waves in particular are used, several chniques are used to compensate for termal gradients in the passenger impartment and/or enable the use of a single transducer to send and receive waves. This

is

accomplished through the use of a tubular mounting structure for the transducers, electronic suppression of ringing of the transducer, mechanical damping of the transducer cone, shaped horns, grills and reflectors for the output of the transducers to precisely control the beam pattern, a logarithmic compression amplifier, a method of temperature compensation based on the change in transducer properties with temperature and/or a dual level network, one level for categorization and the second for occupant position sensing, to improve the accuracy of categorization and the speed of position measurement

for

dynamic out-of-position.

ANSWER 7 OF 21 USPATFULL

ACCESSION NUMBER:

2000:29802 USPATFULL

TITLE:

Test rig

INVENTOR(S):

Jost, Stefan, Eppstein-Bremthal, Germany, Federal

Republic of

PATENT ASSIGNEE(S):

Breed Automotive Technology, Inc., Lakeland, FL,

United

States (U.S. corporation)

	NUMBER	KIND DATE	
PATENT INFORMATION:	US 6035728	20000314	
	WO 9746859	19971211	
APPLICATION INFO.:	US 1998-486	19980130	(9)
	WO 1997-GB1488	19970602	
		19980130	PCT 371 date
		19980130	PCT 102(e) date

NUMBER DATE GB 1996-11557 19960603 GB 1996-23933 19961118

DOCUMENT TYPE:

FILE SEGMENT:

Utility Granted

PRIMARY EXAMINER: LEGAL REPRESENTATIVE: Seitzman, Markell

NUMBER OF DRAWINGS:

PRIORITY INFORMATION:

Noland, Thomas P.

11 NUMBER OF CLAIMS: EXEMPLARY CLAIM:

1 12 Drawing Figure(s); 7 Drawing Page(s)

288 LINE COUNT:

A test rig for impact testing on vehicles comprises a platform AΒ for mounting a vehicle seat and test dummy and an array of individually selectively controllable actuators, in close proximity to the platform. The actuators are extendible towards the platform by individually determinable velocities. Control loops and microprocessors assist the control. In this way a more accurate and versatile

simulation is possible of any one of a variety of crash situations including pole impacts. Vehicle characteristics can be simulated without the need to use expensive actual vehicle parts.

ANSWER 8 OF 21 USPATFULL

ACCESSION NUMBER:

1998:42552 USPATFULL

TITLE:

Lower leg for crash test dummy

INVENTOR(S):

Viano, David C., Bloomfield Hills, MI, United States Jedrzejczak, Edward A., Brown City, MI, United States

Smrcka, Joseph G., Northville, MI, United States

PATENT ASSIGNEE(S): First Technology Safety Systems, Inc., Plymouth, MI,

United States (U.S. corporation)

NUMBER KIND DATE 5741989 19980421

PATENT INFORMATION: US 5741989 19980421 APPLICATION INFO.: US 1996-757514 19961127 (8)

RELATED APPLN. INFO.: Division of Ser. No. US 1994-331282, filed on 28 Oct

1994, now patented, Pat. No. US 5589651

DOCUMENT TYPE: Utility FILE SEGMENT: Granted

PRIMARY EXAMINER: Raevis, Robert
LEGAL REPRESENTATIVE: Clemens, William J.

NUMBER OF CLAIMS: 5
EXEMPLARY CLAIM: 1

NUMBER OF DRAWINGS: 4 Drawing Figure(s); 3 Drawing Page(s)

LINE COUNT: 375

AB A lower leg assembly includes laceration indicators at a knee joint and at a front of a tibia. The tibia is connected to a thigh of a dummy by

a

pivot arm and a potentiometer is provided for measuring relative motion between the tibia and the pivot arm. A damper is positioned between the tibia and the pivot arm. A load cell is connected between the tibia and a lower leg to ankle connector. The connector is pivotally connected to an ankle joint and the ankle joint has a ball which cooperates with a socket formed in a foot assembly to simulate the range of motion of a human foot-ankle joint. Cushions are provided at the connector to ankle joint connection and the ball to socket connection to return the ankle and foot to a neutral position.

L4 ANSWER 9 OF 21 USPATFULL

ACCESSION NUMBER: 97:114420 USPATFULL

TITLE: Seat cushion restraint system

INVENTOR(S): Brantman, Russel, Tampa, FL, United States

Helleman, Hendrik Bernardus, Brandon, FL, United

States

Nakhla, Said Shafik, Lakeland, FL, United States PATENT ASSIGNEE(S): Breed Automotive Technology, Inc., Lakeland, FL,

United

States (U.S. corporation)

NUMBER KIND DATE

PATENT INFORMATION: US 5695242 19971209
APPLICATION INFO.: US 1996-601933 19960215 (8)

DOCUMENT TYPE: Utility
FILE SEGMENT: Granted

PRIMARY EXAMINER: Cranmer, Laurie K.
LEGAL REPRESENTATIVE: Drayer, Lonnie

NUMBER OF CLAIMS: 17 EXEMPLARY CLAIM: 1

NUMBER OF DRAWINGS: 23 Drawing Figure(s); 12 Drawing Page(s)

LINE COUNT: 960

AB A seat structure has a device which acts to reduce the interaction

between the lower extremities of a **vehicle** occupant and the **vehicle** interior. The seat structure also reduces the

interaction between the **vehicle** occupant's legs and the instrument panel by limiting the forward travel of the lower torso. The seat structure may employ an airbag, a mechanical device or a pyrotechnic device, which elevates only the front part of the seat cushion to remove the leg and foot from the path of the intruding or reactive structure, and to minimize the travel of the lower torso into the instrument panel. A **crash** sensor activates the device when the **crash** sensor senses a **crash** of a selected

severity.

ANSWER 10 OF 21

ATFULL ACCESSION NUMBER:

TITLE:

97:48487 USPATFULL

Safety seat

INVENTOR(S):

Singer, Neil C., New York, NY, United States

Gordon, Steven J., Jamaica Plain, MA, United States Zirps, Christopher T., Milton, MA, United States Russo, Massimo A., Brookline, MA, United States

PATENT ASSIGNEE(S):

Massachusetts Institute of Technology, Cambridge, MA,

United States (U.S. corporation)

NUMBER KIND

PATENT INFORMATION:

US 5636424 19970610 US 1994-182511 19940113 (8)

APPLICATION INFO .:

RELATED APPLN. INFO.:

Continuation of Ser. No. US 1991-732860, filed on 19

Jul 1991, now abandoned

DOCUMENT TYPE:

Utility Granted

FILE SEGMENT: PRIMARY EXAMINER:

Gorski, Joseph M.

NUMBER OF CLAIMS:

EXEMPLARY CLAIM: NUMBER OF DRAWINGS:

6 Drawing Figure(s); 3 Drawing Page(s)

LINE COUNT:

414

AB

The vehicle safety seat supports an occupant and includes structure interconnecting the seat and the vehicle. The interconnecting structure is adapted to constrain the seat, upon vehicle deceleration, to follow a trajectory with respect to the vehicle which substantially minimizes a cost function associated

with occupant injury. In a preferred embodiment, the structure constrains the mass center and seat angle to follow trajectories which substantially minimize primarily forward motion of the occupant in the vehicle frame of reference.

ANSWER 11 OF 21 USPATFULL ACCESSION NUMBER:

97:18849 USPATFULL

TITLE:

Vehicle crash data generator

INVENTOR(S):

Cuddihy, Mark A., New Boston, MI, United States Drummond, Jr., J. B., Southfield, MI, United States

Bourquin, Daniel J., Dearborn, MI, United States

PATENT ASSIGNEE(S):

Ford Motor Company, Dearborn, MI, United States (U.S.

corporation)

NUMBER KIND DATE -----

PATENT INFORMATION:

US 5608629 19970304 US 1994-365381 19941227 (8)

APPLICATION INFO :

DOCUMENT TYPE:

Utility

FILE SEGMENT:

Granted

PRIMARY EXAMINER: Teska, Kevin J. ASSISTANT EXAMINER: Nguyen, Tan

LEGAL REPRESENTATIVE: NUMBER OF CLAIMS:

Mollon, Mark

EXEMPLARY CLAIM:

11 1

NUMBER OF DRAWINGS:

10 Drawing Figure(s); 8 Drawing Page(s)

LINE COUNT:

321

Crash data from actual vehicle crashes is

manipulated to produce new hybrid crash data which contains different acceleration peaks while retaining the overall

characteristics

of the original crash data. The new crash data is realistic and can be used to test or verify crash management components such as airbag deployment sensors and to demonstrate the robustness of components to different crashes without the

ANSWER 12 OF 21 USPATFULL

ACCESSION NUMBER: 96:121054 USPATFULL

TITLE:

INVENTOR(S):

PATENT ASSIGNEE(S):

Lower leg for crash test dummy

Viano, David C., Bloomfield Hills, MI, United States Jedrzejczak, Edward A., Brown City, MI, United States

Smrcka, Joseph G., Northville, MI, United States

First Technology Safety Systems, Inc., Plymouth, MI,

United States (U.S. corporation)

NUMBER KIND DATE

US 5589651 19961231 US 1994-331282 19941028 (8) PATENT INFORMATION:
APPLICATION INFO.:
DOCUMENT TYPE:

DOCUMENT TYPE: Utility Granted FILE SEGMENT:

PRIMARY EXAMINER: Raevis, Robert

LEGAL REPRESENTATIVE: Howard & Howard Atty.

NUMBER OF CLAIMS: EXEMPLARY CLAIM:

4 Drawing Figure(s); 3 Drawing Page(s) NUMBER OF DRAWINGS:

LINE COUNT: · 401

A lower leg assembly includes laceration indicators at a knee joint and AB at a front of a tibia. The tibia is connected to a thigh of a dummy by

pivot arm and a potentiometer is provided for measuring relative motion between the tibia and the pivot arm. A damper is positioned between the tibia and the pivot arm. A load cell is connected between the tibia and a lower leg to ankle connector. The connector is pivotally connected to an ankle joint and the ankle joint has a ball which cooperates with a socket formed in a foot assembly to simulate the range of motion of a human foot-ankle joint. Cushions are provided at the connector to ankle joint connection and the ball to socket connection to return the ankle and foot to a neutral position.

ANSWER 13 OF 21 USPATFULL

96:114562 USPATFULL ACCESSION NUMBER:

Method and apparatus for distinguishing between TITLE:

deployment events and non-deployment events in an SIR

system

Lynch, David D., Santa Barbara, CA, United States INVENTOR(S):

Long, James F., Goleta, CA, United States

Brumbach, Jr., Rex P., Goleta, CA, United States Garcia, Jr., Porfirio, Santa Ynez, CA, United States Kiselewich, Stephen J., Carmel, IN, United States

Turner, Douglas D., Kokomo, IN, United States

Delco Electronics Corp., Kokomo, IN, United States PATENT ASSIGNEE(S):

(U.S. corporation)

NUMBER KIND DATE _____

PATENT INFORMATION: US 5583771 19961210
APPLICATION INFO.: US 1994-285673 19940804 (8)

DOCUMENT TYPE: Utility

FILE SEGMENT:

PRIMARY EXAMINER:

LEGAL REPRESENTATIVE:

Navarre, Mark A.

NUMBER OF CLAIMS:

20

11 EXEMPLARY CLAIM:

NUMBER OF DRAWINGS: 8 Drawing Figure(s); 8 Drawing Page(s)
LINE COUNT: 505

LINE COUNT: 585

A pattern recognition system is utilized in a supplementary inflatable restraint (SIR) system to distinguish between deployment and

non-deployment events. The pattern recognition system preferably regrammed to perform a includes dedicated hardware or a microprocessor recural network ulation utilizing crash data i the form of vehicle acceleration data. Training and trial vectors are generated from the data to train and, subsequently, test

the

neural network.

ANSWER 14 OF 21 USPATFULL

96:4860 USPATFULL ACCESSION NUMBER:

TITLE:

Apparatus and method for side impact testing Stein, Douglas J., Oxford, MI, United States

INVENTOR(S): Peters, Frederick M., Northville, MI, United States

Kelly, James R., Richmond, MI, United States

Ivan, Chad J., Fenton, MI, United States

Morton International, Inc., Chicago, IL, United States PATENT ASSIGNEE(S):

(U.S. corporation)

NUMBER KIND DATE _____ PATENT INFORMATION:

US 5483845 19960116 US 1994-304386 19940912 (8) APPLICATION INFO.:

DOCUMENT TYPE: Utility Granted FILE SEGMENT:

PRIMARY EXAMINER: Noland, Thomas P.

LEGAL REPRESENTATIVE: Rauchfuss, Jr., George W., White, Gerald K.

15 NUMBER OF CLAIMS: 1 EXEMPLARY CLAIM:

3 Drawing Figure(s); 3 Drawing Page(s) NUMBER OF DRAWINGS:

LINE COUNT: 535

Apparatus for simulating a side impact vehicle crash AB comprises a test dolly assembly slidably mounted for longitudinal movement on a slidably mounted sled carriage accelerated by a pressure differential firing means. The test dolly assembly is essentially stationary on a track fixedly mounted on the sled carriage assembly

until a ram on the sled carriage assembly strikes an impact block on

the

test dolly assembly.

ANSWER 15 OF 21 USPATFULL

94:89892 USPATFULL ACCESSION NUMBER:

Generalized rotary shock and impact testing machine TITLE: Castelli, Vittorio, Yorktown Heights, NY, United INVENTOR(S):

States

Automotive Technologies International, Inc., Boontown PATENT ASSIGNEE(S):

Township, NJ, United States (U.S. corporation)

NUMBER KIND DATE -----

US 5355716 19941018 US 1990-531906 19900601 (7) PATENT INFORMATION: APPLICATION INFO.:

DOCUMENT TYPE: Utility FILE SEGMENT: Granced
PRIMARY EXAMINER: Woodiel, Donald O.
LEGAL REPRESENTATIVE: Sprung Horn Kramer & Woods

NUMBER OF CLAIMS: 36 EXEMPLARY CLAIM:

38 Drawing Figure(s); 38 Drawing Page(s) NUMBER OF DRAWINGS:

LINE COUNT: 1057

AB This invention relates to a shock and impact testing apparatus for subjecting items under test, such as a motor vehicle

crash sensor, to an acceleration pulse of a prescribed amplitude

and shape, such as a half sine or haversine. The apparatus includes a stationary support providing a pivot point, a swivel arm mounted for

rotational movement about the pivot point and an electric motor, arranged on the tationary support and mechanically coupled to the swivel arm, for tating the swivel arm at a desid, prescribed speed. The arm has a free end for the attachment of the test object so that

the

test object is moved at the prescribed speed along a given path. A mechanical spring is arranged in this path for reversing the direction of motion of the test object, thereby imparting an acceleration pulse

to

the test object of a prescribed shape. The spring has a plurality of characteristic modes of vibration which provide different frequencies

of

vibration; however, the spring is constructed to reverse the direction of motion of the test object at substantially one frequency of vibration. The apparatus can also be used for subjecting a test object to a prescribed impact.

L4 ANSWER 16 OF 21 USPATFULL

ACCESSION NUMBER: 93:63384 USPATFULL

TITLE: Spring mass passenger compartment crash

sensors

INVENTOR(S): Breed, David S., Boontown, NJ, United States

PATENT ASSIGNEE(S): Automotive Technologies International Inc., Mountain

Lakes, NJ, United States (U.S. corporation)

NUMBER KIND DATE
-----PATENT INFORMATION: US 5233141 19930803

PATENT INFORMATION: US 5233141 19930803 APPLICATION INFO.: US 1991-727757 19910709 (7)

RELATED APPLN. INFO.: Continuation-in-part of Ser. No. US 1990-480273, filed

on 15 Feb 1990 And Ser. No. US 1990-480271, filed on

15

Feb 1990, now patented, Pat. No. US 5155307 Ser. No. Ser. No. US 1990-480257, filed on 15 Feb 1990 Ser. No. Ser. No. US 1991-686717, filed on 17 Apr 1991, now abandoned which is a continuation-in-part of Ser. No. US 1989-314603, filed on 23 Feb 1989, now abandoned

DOCUMENT TYPE: Utility
FILE SEGMENT: Granted
PRIMARY EXAMINER: Scott, J. R.

LEGAL REPRESENTATIVE: Sprung Horn Kramer & Woods

NUMBER OF CLAIMS: 18 EXEMPLARY CLAIM: 1

NUMBER OF DRAWINGS: 19 Drawing Figure(s); 17 Drawing Page(s)

LINE COUNT: 898

This invention includes **crash** sensors designed to be used for frontal impact sensing and the strategies of using these sensors. It is analyzed and shown that for cases where the passenger compartment mounted discriminating sensor is used as a backup to forward crush zone mounted **crash** sensors or where the **vehicle** occupant is wearing a seat belt, that spring mass sensors can be used. In

addition, spring mass sensors can also be used as arming or safing sensors. In all cases, provision must be made to minimize the effects

cross-axis vibrations on such sensors as taught by this invention. Such sensors can be made with housings of plastic. A preferred embodiment of this invention utilizes a mass supported and biased by a beam contact which is attached to a housing. These sensors are useful for sensing frontal impacts in the passenger compartment both as primary sensors

and

same

οf

as single or dual contact arming sensors. They can also be combined by placing two sensors within a single housing and, in some cases, the $\,$

mass can be used for both sensors. Finally, they can be used in electro-mechanical and in all mechanical air bag systems. It is further

making the at r bias substantially less than bias at actuation.

ANSWER 17 OF 21 INSPEC COPYRIGHT 2002 IEE ACCESSION NUMBER: 1999:6293505 INSPEC

B1999-08-7520H-007; C1999-08-1290L-057 DOCUMENT NUMBER:

Computer simulation and sled test validation TITLE:

of a powerbase wheelchair and occupant subjected to

frontal crash conditions.

Bertocci, G.E.; Szobota, S.; Hobson, D.A.; Digges, K. AUTHOR:

(Dept. of Rehabilitation Sci. & Technol., Pittsburgh

Univ., PA, USA)

IEEE Transactions on Rehabilitation Engineering (June SOURCE:

1999) vol.7, no.2, p.234-44. 10 refs.

Doc. No.: S1063-6528(99)04472-9

Published by: IEEE

Price: CCCC 1063-6528/99/\$10.00 CODEN: IEEREN ISSN: 1063-6528

SICI: 1063-6528(199906)7:2L.234:CSST;1-T

DOCUMENT TYPE: Journal

Theoretical; Experimental TREATMENT CODE:

COUNTRY: United States LANGUAGE: English

B1999-08-7520H-007; C1999-08-1290L-057 DN

The Americans with Disabilities Act (ADA) has led to an increased number AB

of wheelchair users seeking transportation services. Many of these individuals are unable to transfer to a vehicle and are instead required to travel seated in their wheelchairs. Unfortunately,

wheelchairs

are not typically designed with the same occupant protection features as motor vehicle seats, and wheelchair seated occupants may be at higher risk for injury in a crash. To study the effects of

crash level forces on wheelchairs and their occupants, it is useful to simulate crash conditions using computer

modeling. This study has used a dynamic lumped mass crash

simulator, in combination with sled impact testing, to develop a model of a secured commercial powerbase and restrained occupant

subjected to a 20 g/30 mph frontal motor vehicle crash

. Time histories profiles of simulation-generated wheelchair kinematics, occupant accelerations, tiedown forces and occupant

restraint forces were compared to sled impact testing for model validation. Validation efforts for this model were

compared to validation results found acceptable for the ISO/SAE surrogate wheelchair model. This wheelchair-occupant simulation

model can be used to investigate wheelchair crash

response or to evaluate the influence of various factors on occupant crash safety.

ANSWER 18 OF 21 INSPEC COPYRIGHT 2002 IEE ACCESSION NUMBER: 1991:3795784 INSPEC

C91012982 DOCUMENT NUMBER:

Crash simulation methods for TITLE:

vehicle development at Mazda.

AUTHOR: Ando, S.; Kurimoto, K.; Taga, K. (Mazda Motor Corp.,

Hiroshima, Japan)

Cray Channels (Fall 1990) vol.12, no.3, p.10-13. 3 SOURCE:

refs.

CODEN: CRCHE8

Journal DOCUMENT TYPE:

Application; Experimental TREATMENT CODE:

COUNTRY: United States

LANGUAGE: English

DN

At Mazda, developing new crashworthy vehicles involves

optimizing the body structure as well as the occupant restraint system. Mazda begy to use large-scale vehicle crassimulation method or design and optimization several years ago. Today, the company models crashworthiness on a CRAY X-MP supercomputer, a cost-effective, efficient way to develop new structures for vehicle safety. Three of the most typical crashes simulated are frontal, rear, and side impact.

L4 ANSWER 19 OF 21 EUROPATFULL COPYRIGHT 2002 WILA

PATENT APPLICATION - PATENTANMELDUNG - DEMANDE DE BREVET

ACCESSION NUMBER: 720008 EUROPATFULL EW 199627 FS OS STA R

TITLE:

Vehicle crash data generator. Fahrzeugaufpralldatengenerator. Generateur de donnees de collision

pour vehicule.

INVENTOR(S): Bourquin, Daniel Jack, 22345 Francis, Dearborn,

Michigan

48124, US;

Cuddihy, Mark Anthony, 32975 West Road, New Boston,

Michigan 48164, US;

Drummond, J. B., jr., 23040 Bittersweet, Southfield,

Michigan 48034, US

PATENT ASSIGNEE(S): FORD MOTOR COMPANY LIMITED, Eagle Way, Brentwood Essex,

GB, in GB FORD-WERKE AKTIENGESELLSCHAFT, Werk

Koeln-Niehl, Henry Ford Strasse, Postfach 60 04 02, D-50735 Koeln, DE, in DE FORD FRANCE S. A., B.P. 307, F-92506 Rueil-Malmaison Cedex, FR, in FR Ford Motor Company, The American Road, Dearborn, MI 48121, US, in

ΙT

PATENT ASSIGNEE NO:

476311; 476354; 476291; 476340

AGENT:

Messulam, Alec Moses et al, A. Messulam & Co. 24

Broadway, Leigh on Sea Essex SS9 1BN, GB

AGENT NUMBER: 33832

OTHER SOURCE: ESP1996035 EP 0720008 A2 960703

PRIORITY APPLN. INFO.: US 1994-365381

SOURCE: Wila-EPZ-1996-H27-T2a

DOCUMENT TYPE:

Patent

LANGUAGE: Anmeldung in Englisch; Veroeffentlichung in Englisch

DESIGNATED STATES: R DE; R FR; R GB; R IT

PATENT INFO.PUB.TYPE: EPA2 EUROPAEISCHE PATENTANMELDUNG

PATENT INFORMATION:

'OFFENLEGUNGS' DATE:

APPLICATION INFO.:

GRANTED PATENT - ERTEILTES PATENT - BREVET DELIVRE

ACCESSION NUMBER: 720008 EUROPATFULL EW 200112 FS PS

TITLE: Vehicle crash data generator.

Fahrzeugaufpralldatengenerator.

Vehicle crash data generator.

INVENTOR(S): Bourquin, Daniel Jack, 22345 Francis, Dearborn,

Michigan

48124, US;

Cuddihy, Mark Anthony, 32975 West Road, New Boston,

19941227

Michigan 48164, US;

Drummond, J. B., jr., 23040 Bittersweet, Southfield,

Michigan 48034, US

PATENT ASSIGNEE(S): FORD MOTOR COMPANY LIMITED, Eagle Way, Brentwood Essex,

GB, in GB;

FORD-WERKE AKTIENGESELLSCHAFT, Werk Koeln-Niehl, Henry Ford Strasse, Postfach 60 04 02, 50735 Koeln, DE, in

DE;

FORD FRANCE S.A., B.P. 307, 92506 Rueil-Malmaison

Cedex,

FR, in FR;

FORD MOTOR COMPANY, The American Road, Dearborn, MI

48121, US, in IT

PATENT ASSIGNEE NO:

476311; 476354; 476291; 476340

AGENT:

Messulam, Alec Moses et al., A. Messulam & Co. Ltd.,

43-45 High Road, Bushey Heath, Bushey, Herts WD23 1EE,

AGENT NUMBER:

33832

OTHER SOURCE:

BEPB2001012 EP 0720008 B1 0015

SOURCE:

Wila-EPS-2001-H12-T2

DOCUMENT TYPE:

Patent

PATENT NO

LANGUAGE:

Anmeldung in Englisch; Veroeffentlichung in Englisch

KIND DATE

DESIGNATED STATES:

R DE; R FR; R GB; R IT

PATENT INFORMATION:

PATENT INFO.PUB.TYPE: EPB1 EUROPAEISCHE PATENTSCHRIFT

______ EP 720008 B1 20010321

'OFFENLEGUNGS' DATE:

19960703 19951213

APPLICATION INFO.: EP 1995-309081 PRIORITY APPLN. INFO.: US 1994-365381

REFERENCE PAT. INFO.: US 5185701 A

ANSWER 20 OF 21 EUROPATFULL COPYRIGHT 2002 WILA 1.4

PATENT APPLICATION - PATENTANMELDUNG - DEMANDE DE BREVET

ACCESSION NUMBER:

EUROPATFULL EW 199611 FS OS STAR 701114 Apparatus and method for side impact testing.

TITLE:

Vorrichtung und Verfahren zur Seitenaufprall-Pruefung.

Appareil et methode d'essai par choc lateral.

INVENTOR (S):

Stein, Douglas J., 461 Thornehill Trail, Oxford, Michigan 48371, US;

Peters, Frederick M., 46594 Northvalley Drive,

Northville, Michigan 48167, US;

Kelly, James R., 36391 Priestap Street, Richmond,

Michigan 48062, US;

Ivan, Chad J., 2035 Kellogg Drive, Fenton, Michigan

48430, US

PATENT ASSIGNEE(S):

MORTON INTERNATIONAL, INC., 100 North Riverside Plaza, Randolph Street at the River, Chicago, Illinois 60606,

US

PATENT ASSIGNEE NO:

1152272

AGENT:

Bankes, Stephen Charles Digby et al, BARON & WARREN 18

South End Kensington, London W8 5BU, GB

AGENT NUMBER:

47701

OTHER SOURCE: ESP1996014 EP 0701114 A2 960313

SOURCE:

Wila-EPZ-1996-H11-T2a

DOCUMENT TYPE:

Patent

LANGUAGE:

Anmeldung in Englisch; Veroeffentlichung in Englisch

DESIGNATED STATES:

R DE; R FR; R GB; R IT

EP 701114

PATENT INFO.PUB.TYPE: EPA2 EUROPAEISCHE PATENTANMELDUNG PATENT INFORMATION:

PATENT NO KIND DATE

'OFFENLEGUNGS' DATE:

A2 19960313 19960313

APPLICATION INFO.: EP 1995-306225

19950906 PRIORITY APPLN. INFO.: US 1994-304386 19940912

GRANTED PATENT - ERTEILTES PATENT - BREVET DELIVRE

ACCESSION NUMBER:

EUROPATFULL EW 200119 FS PS 701114

TITLE:

Apparatus and method for side impact testing.

PATENT NO KIND DATE -----

695668 Al 19960207

19960207

'OFFENLEGUNGS' DATE: APPLICATION INFO.:

EP 1995-201931 PRIORITY APPLN. INFO.: US 1994-285673 19950713 19940804

GRANTED PATENT - ERTEILTES PATENT - BREVET DELIVRE

ACCESSION NUMBER:

TITLE:

695668 EUROPATFULL EW 199750 FS PS

Supplemental inflatable restraint system. Zusaetzliches aufblasbares Rueckhaltesystem. Systeme de retenue gonflable supplementaire.

INVENTOR (S):

Lynch, David Dexter, 5442 Berkeley Road, Santa Barbara,

CA 93111, US;

Kiselewich, Stephen Joseph, 12980 Brighton Avenue,

Carmel, IN 46032, US;

Turner, Douglas David, 1604 Bramoor, Kokomo, IN 46902,

US;

Long, James Franklin, 6042 Paseo Palmilla, Goleta, CA

93117, US;

Brumbach, Rex Patrick, Jr., 4946 La Ramada Drive,

Goleta, CA 93111, US;

Wila-EPS-1997-H50-T3

Garcia, Porfirio, Jr., 1340 Tyndall Street, Santa Ynez,

CA 93460, US

PATENT ASSIGNEE(S):

DELCO ELECTRONICS CORPORATION, 700 East Firmin Street,

Kokomo Indiana 46902, US

PATENT ASSIGNEE NO:

AGENT:

954423

Denton, Michael John et al, Delphi Automotive Systems

Centre Technique Paris 117 avenue des Nations B.P. 60059, 95972 Roissy Charles de Gaulle Cedex, FR

AGENT NUMBER: 51983

OTHER SOURCE:

EPB1997075 EP 0695668 B1 971210

SOURCE:

DOCUMENT TYPE:

Patent

LANGUAGE:

Anmeldung in Englisch; Veroeffentlichung in Englisch

DESIGNATED STATES: R DE; R FR; R GB

PATENT INFO. PUB. TYPE: EPB1 EUROPAEISCHE PATENTSCHRIFT

PATENT INFORMATION:

PATENT NO KIND DATE ------EP 695668 B1 19971210 19960207 'OFFENLEGUNGS' DATE: APPLICATION INFO.: EP 1995-201931 PRIORITY APPLN. INFO.: US 1994-285673 19950713 APPLICATION INFO.: 19940804 REFERENCE PAT. INFO.: EP 567900 A EP 568017 Α